



500.43451X00
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): A. KANO, et al

Serial No.: 10/766,015

Filed: January 29, 2004

For: DISK ARRAY SYSTEM AND METHOD FOR CONTROLLING DISK ARRAY SYSTEM

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

May 31, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. Applicants hereby inform the Examiner that only copies of the foreign applications, publications and articles are being submitted herewith. No copies of the U.S. documents are being submitted.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

Each of the documents listed on the attached form equivalent to Form PTO-1449 is in the English language.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. Deposit Account No. 50-1417 (500.43451X00) please credit any excess fees to such deposit account.

Respectfully submitted,



Carl I. Brundidge
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

CIB/jdc
(703) 684-1120

FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

500.43451CX1

SERIAL NO.

10/766,015

APPLICANT

A. KANO, et al

FILING DATE

January 29, 2004

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6	6	3	6	9	3	4	10/03	Linnell			
	5	9	5	1	6	9	1	09/99	Ng et al			
	6	1	1	5	7	9	7	09/00	Kanda et al			
	6	1	7	3	3	6	0	1/01	Beardsley et al			
	6	5	5	3	4	0	8	4/03	Merrell et al			
	6	6	0	6	6	9	0	8/03	Padovano			
	6	7	7	2	3	6	5	8/04	Obara			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	
		0	8	4	4	5	6	1	5/98	Katsuragi et al				NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)								ATTY. DOCKET NO.	SERIAL NO.
								500.43451CX1 A. KANO, et al	
								FILING DATE	GROUP
								January 29, 2004	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6	1	0	8	7	4	8	08/00	Ofek et al			
	6	5	1	0	4	9	1	1/03	Franklin et al			
	6	6	5	1	1	3	7	11/03	Baek et al			
	6	7	0	8	2	3	2	03/04	Obara et al			
	5	5	4	6	5	5	8	8/96	Jacobson et al			

FOREIGN PATENT DOCUMENTS

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													YES	
		1	3	1	5	0	7	4	5/03	European				NO

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2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al				
2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al				
2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al				
2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al				
2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga				
2 0 0 4	0	1	1	7	5	1	7	6/04	Beauchamp et al				

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2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas				
2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire				
2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al				
2 0 0 4	0	0	7	3	7	4	7	4/04	Lu				
2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al				

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		5	6	0	3	0	0	3					
		5	8	3	8	8	9	1	2/97	Akizawa et al			
		5	8	6	7	7	3	6	11/98	Mizuno et al			
		5	8	8	4	0	9	8	2/99	Jantz			
		5	8	8	4	0	9	8	3/99	Mason, Jr.			
		6	2	1	9	7	5	2	4/01	Sekido			
		6	2	2	3	2	4	9	4/01	Kato et al			
		6	5	4	9	9	7	8	5/03	Mansur et al			
		6	6	4	0	2	7	8	10/03	Nolan et al			
		6	6	8	4	2	9	5	1/04	Fujimoto et al			
		6	7	4	5	2	8	7	6/04	Fujimoto et al			
		6	2	0	1	6	9	2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		YES	NO											
	2002	3	3	3	9	5	4		11/02	Japan				
.	2004	1	7	8	5	5	7		6/04	Japan				

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	6	6	2	8	5	1	3	9/03	Gallagher et al			
	6	8	3	1	8	3	9	12/04	Bovell			
	6	0	6	1	7	5	0	5/00	Beardsley et al			
	6	7	6	3	4	3	6	7/04	Gabber et al			
	6	7	9	2	4	8	6	9/04	Hanan et al			
	6	1	3	7	6	7	9	10/00	Chang			
	6	3	5	1	3	7	5	2/02	Hsieh et al			
	6	4	8	4	2	3	6	11/02	Fujimoto et al			
	6	4	8	4	2	6	9	11/02	Kopylovitz			
	6	7	2	8	9	2	2	4/04	Sundaram et al			
	5	4	7	5	8	1	4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
	0	2	1	8	8	3	5		Japan			YES
												NO

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		6	5	0	2	1	0	8					
		6	6	5	8	5	9	2	12/02	Day, III, et al			
		6	6	5	8	5	9	2	12/03	Cohen et al			
2 0 0 2		0	0	0	7	4	6	9	1/02	Taketa et al			
2 0 0 2		0	0	4	0	4	1	3	4/02	Okada et al			

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		YES	NO												
2 0 0 1		1	4	2	6	5	0		5/01	Japan					
2 0 0 2		1	5	0	7	4	6		5/02	Japan					

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2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al				
2 0 0 3	0	1	1	5	4	3	7	6/03	Tomita				
2 0 0 3	0	1	4	5	1	6	7	7/03	Tomita				
2 0 0 3	0	1	9	6	0	0	2	10/03	Nakayama et al				
2 0 0 3	0	1	9	6	1	4	7	10/03	Hirata et al				

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2 0 0 4		0	0	2	4	9	3	0	2/04	Nakayama et al				
2 0 0 4		0	0	6	8	6	1	0	4/04	Umberger et al				
2 0 0 4		0	1	0	7	3	2	5	6/04	Mori				

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2 0 0 1	2	0	0	4	6	1	1	8	11/01	Yamanashi et al			
2 0 0 1	2	0	0	5	4	1	3	6	12/01	Ninomiya et al			
2 0 0 1	2	0	0	5	6	5	2	7	12/01	Ninomiya et al			
2 0 0 2	2	0	1	6	2	0	5	7	10/02	Talagala			
2 0 0 3	2	0	0	4	1	2	0	1	2/03	Rauscher			
2 0 0 3	2	0	1	7	2	1	5	0	9/03	Kennedy			
2 0 0 4	2	0	1	1	7	5	3	4	6/04	Parry et al			
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2 0 0 3	0	0	4	1	2	7	8	2/03	Lin				
2 0 0 4	0	1	1	1	5	6	0	6/04	Takase et al				
2 0 0 4	0	2	6	7	5	1	6	12/04	Jibbe et al				
2 0 0 5	0	0	2	7	9	0	0	2/05	Pettey				

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2 0 0 3	2	0	2	3	1	4	2	0	12/03	Kano et al				
2 0 0 4	2	0	0	8	8	4	8	2	5/04	Tanzer et al				
2 0 0 4	2	0	1	6	9	9	9	6	9/04	Paul et al				
2 0 0 1	2	0	0	1	9	5	0	9	9/01	Aho et al				
2 0 0 3	2	0	0	4	6	4	6	0	3/03	Inoue et al				
2 0 0 4	2	0	1	3	9	2	6	0	7/04	Steinmetz				
2 0 0 4	2	0	1	4	8	3	2	9	7/04	Ogasawara et al				
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2 0 0 2	0	0	4	9	8	8	6	4/02	Furuya et al				
2 0 0 2	0	1	4	4	0	5	7	10/02	Li et al				
2 0 0 3	0	1	3	1	2	9	1	7/03	Morrison et al				
2 0 0 3	0	1	6	7	4	3	9	9/03	Talagala et al				
2 0 0 3	0	0	9	7	4	8	7	5/03	Rietze et al				
2 0 0 4	0	1	1	1	4	8	5	6/04	Mimatsu et al				
2 0 0 4	0	2	6	8	0	3	7	12/04	Buchanan, Jr. et al				
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2 0 0 3	0	2	1	2	8	5	9	11/03	Ellis				
2 0 0 4	0	1	4	8	4	6	0	7/04	Steinmetz				
2 0 0 4	0	1	4	8	4	6	1	7/04	Steinmetz				
2 0 0 4	0	2	3	6	9	0	8	11/04	Suzuki et al				
2 0 0 3	0	1	1	0	3	3	0	6/03	Fujie et al				
	5	8	4	5	3	1	9	12/98	Yorimitsu				
	6	4	4	9	7	0	9		Gates				

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		5	8	2	2	7	8	2	10/98	Humlicek et al			
2 0 0 2	0	0	6	2	4	5	4		5/02	Fung			

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2 0 0 3	3	6	1	4	6				2/03	Japan			

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	2	0	1	8	9	8	1	1					
2 0 0 3									10/03	Peeke et al			
2 0 0 3									7/03	Weber et al			

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		YES	NO											
1	0	3	0	1	7	2	0	11/98	Japan					Eng.Trans

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-8.
	ESG Product Brief EMC, March 2003, CLARiiON WITH ATA, pp. 1-2.
	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker Diskbackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.

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	0	9	3	3	0	1	8	4	12/97	Japan					XX

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	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates' BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-28.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])